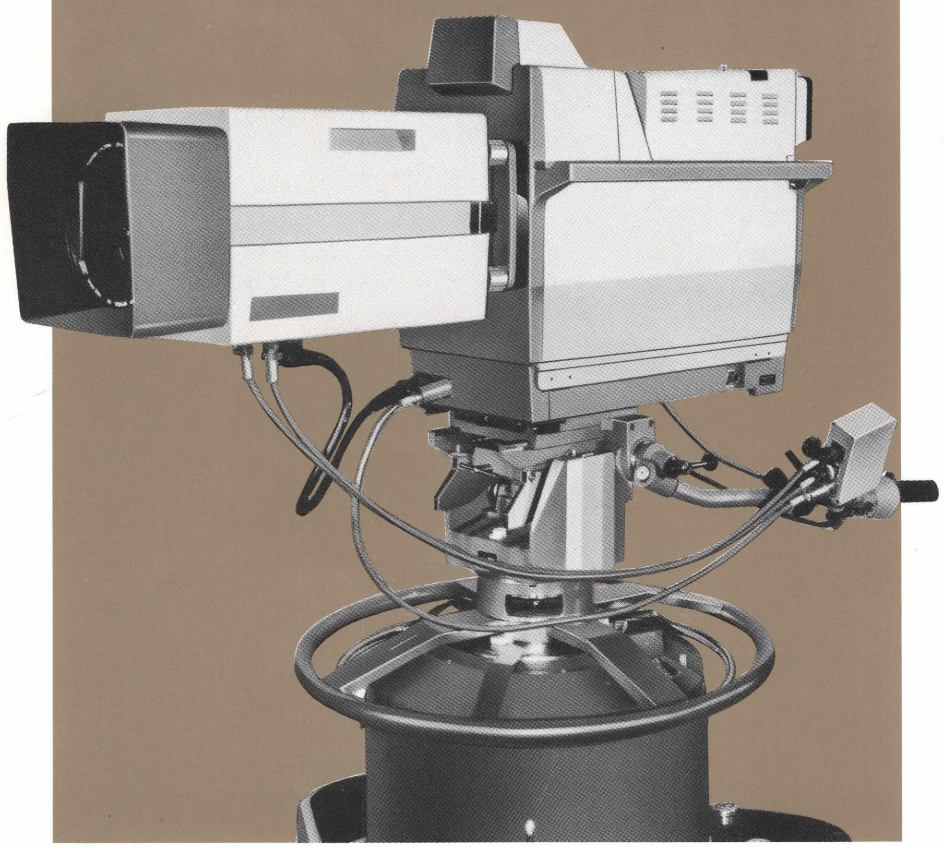
IC-07

Ikegami

HDTV

High definition television camera



Ikegami High Definition TV Camera

The Ikegami High Definition TV Camera, High Definition Monochrome Monitor and High Definition Colour Monitor are the result of wide-range studies taking into consideration the characteristics of the human visual system and viewer's requirements for future television systems in respect to:

a) Viewing distance and required picture quality
b) Picture size (standard picture size and picture format)
c) Scanning standards (number of scanning lines, interlace ratio, frame frequency)
d) Signal standard (signal type, bandwidth, required S/N ratio)

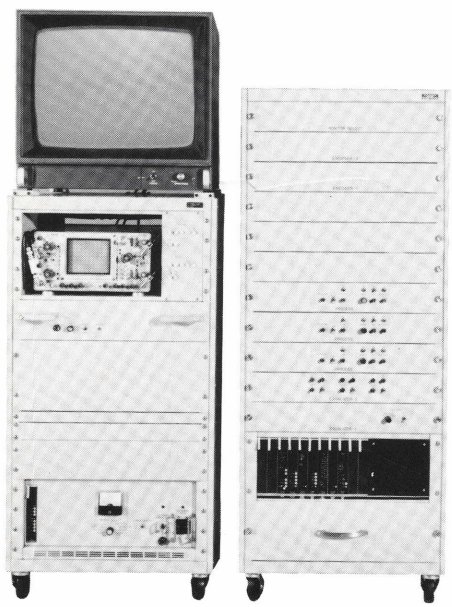
The studies, by NHK (Japan Broadcasting Corporation) resulted in the following provisional specifications.

Number of scanning lines:	1,125
Aspect ratio:	5:3
Line Interlace ratio:	2:1
Field frequency:	60Hz
Video frequency bandwidth:	30MHz

The resulting system shows no evidence of scanning lines and blur even at a viewing distance of three times the picture height. The pick-up tube is a specially developed 1-inch diode gun saticon; this tube exhibits high resolution and low lag; the target connection insures low capacitance so as to achieve a high signal-to-noise ratio despite the wide video bandwidth.

Features

* High resolution of 1400 TV lines or better at center
* Low lag characteristics of 1% or less, after 3 fields
* Negligible amount of shading over the entire picture area
* 44 dB of signal to noise ratio at Y channel over 30MHz bandwidth

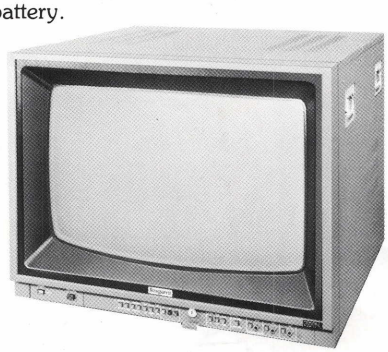


Control Rack Video Rack

* Digital Registration Correction

Registration is an important factor in a three-tube colour television camera system, as it is affected not only by the characteristics of the deflection circuit but also by the magnetic field distribution of each coil, the size of the electrodes of each pickup tube, and various other effects.

To achieve registration accuracy of 0.025% over the entire viewing area, this camera is provided with a Digital Registration Correction Circuit. The circuit assures that 570 sampling points (30 horizontal x 19 vertical points) are uniformly distributed in the picture area. The amount of deflection distortion or misregistration at those points can be manually corrected and subsequently the correction data is stored in a non-volatile memory which is permanently supported in the CCU by a battery.



30-inch High Definition Colour Monitor

Specifications

1. Input signal

Phase reference signal:	BBS or Sync, SC, Pal pulse, 75Ω
Return video signal:	VS positive 75Ω 1 input
Tally:	DC 24V or contact closure 1 input

2. Output signal

R, G, B signal:	V 0.7V (p-p) positive 75Ω 2 outputs
Phase reference signal:	HD negative 75Ω 2 outputs
	VD negative 75Ω 2 outputs
	BL negative 75Ω 2 outputs
	SYNC negative 75Ω 2 outputs
	Delay Sync negative 75Ω 2 outputs
	SC sinewave 75Ω 2 outputs
	Pal Pulse 75Ω 2 outputs

3. Intercom:	4-wire system 0dBm 600Ω 1 channel
4. Power requirements:	AC 115V ±5% 50/60Hz
5. Camera cable:	Max. external diameter: 22mm
	Max. length: 150m

6. Dimensions

Camera head (mm):	277 (W) x 520 (H) x 601 (D)
CCU video rack (mm):	510 (W) x 1,303 (H) x 600 (D)
CCU control rack (mm):	510 (W) x 935 (H) x 600 (D)

7. Weight

Camera head:	48 kg approx.
CCU video rack:	150 kg approx.
CCU control rack:	160 kg approx.

Specifications are subject to change without notice.

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